

1           **What is claimed is:**

2       1. A nail-driving tool comprising:

3           a head;

4           a cylinder mounted in the head and comprising a chamber defined by  
5           an inner peripheral wall and an end wall, the end wall including a  
6           through-hole, the inner peripheral wall including plural ports  
7           communicated with outside;

8           a piston reciprocatingly received in the chamber of the cylinder;

9           a driving element securely attached to the piston to move therewith,  
10          the driving element extending through the through-hole of the end wall;

11          a bumper comprising a first bumper section and a second bumper  
12          section made of a material having a rigidity different from that of the first  
13          bumper section, the driving element extending through the bumper;

14          wherein when in a driving stroke of the piston toward the bumper, air  
15          in the chamber exits the cylinder via the ports of the cylinder.

16       2. The nail-driving tool as claimed in claim 1, wherein the first bumper  
17          section is more rigid than the second bumper section, the second bumper  
18          section comprising an enlarged end section that abuts against the end wall,  
19          an annular connecting wall being defined between the end wall and the  
20          inner peripheral wall, the enlarged end section of the second bumper  
21          section being securely received in a space defined by the annular  
22          connecting wall.

23       3. The nail-driving tool as claimed in claim 2, wherein the annular  
24          connecting wall has a general plane located at a level different from that of  
25          the inner peripheral wall of the cylinder, thereby defining a gap between  
26          the inner peripheral wall of the cylinder and the bumper.



- 1        10. The nail-driving tool as claimed in claim 6, wherein the head comprises  
2              plural ports in an end thereof to allow communication between the  
3              chamber of the cylinder and outside.
- 4        11. The nail-driving tool as claimed in claim 7, wherein the gap is defined  
5              between the second bumper section and the inner peripheral wall of the  
6              cylinder.
- 7        12. The nail-driving tool as claimed in claim 11, wherein the annular  
8              connecting wall has a general plane located at a level different from that of  
9              the inner peripheral wall of the cylinder, thereby defining the gap between  
10             the inner peripheral wall of the cylinder and the bumper.
- 11       13. The nail-driving tool as claimed in claim 11, further comprising means for  
12              driving the piston, said piston-driving means being one of pressurized air  
13              and inflammable gas.
- 14       14. The nail-driving tool as claimed in claim 11, wherein the head comprises  
15              plural ports in an end thereof to allow communication between the  
16              chamber of the cylinder and outside.